

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trudemark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS PO. Bex 1450 Alexandria, Viginia 22313-1450 www.unpto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

006147

7590

05/19/2003

GENERAL ELECTRIC COMPANY GLOBAL RESEARCH CENTER PATENT DOCKET RM. 4A59 PO BOX 8, BLDG. K-1 ROSS NISKAYUNA, NY 12309 EXAMINER
HASSANZADEH, PARVIZ

ART UNIT CLASS-SUBCLASS

1763 118-7230ER

DATE MAILED: 05/19/2003

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO.

09/683,149 11/27/2001 Marc Schaepkens RD28667 5978

TITLE OF INVENTION: APPARATUS AND METHOD FOR DEPOSITING LARGE AREA COATINGS ON PLANAR SURFACES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$300	\$1600	08/19/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

□ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Stop ISSUE FEE Commissioner for Patents

Alexandria, Virginia 22313-1450

(703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where

indicated unless corrected maintenance fee notificatio	below or directed otherwis ns.	e in Block 1, by (a) sp	ecifying a new co	rrespondence add	es will be mailed to the current ress; and/or (b) indicating a sep	arate "FEE ADDRESS" for
006147 7	TE ADDRESS (Note: Legisty mark- 590 05/19/2003		Slock I)	Free(s) Transmit	te of mailing can only be used for ttal. This certificate cannot supers, Each additional paper,	be used for any other
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Moleculous, N	1 12507		ſ			(Depositor's name)
						(Signature)
			l			(Date)
APPLICATION NO.	FILING DATE	FIRS	T NAMED INVENT	OR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/683,149	11/27/2001		Marc Schaepkens		RD28667	5,978
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLI	CATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300		\$300	\$1600	08/19/2003
EXAMI	NER	ART UNIT	CLASS-SUBCL	ASS		
HASSANZAD	EH, PARVIZ	1763	118-7230E	₹		
CFR 1.363). Change of correspond Address form PTO/SB/1 Fee Address" indicat PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME ANI	ion (or "Fee Address" Indic or more recent) attached. U	Correspondence ation form se of a Customer BE PRINTED ON THE	the names of up or agents OR, single firm (ha attorney or age registered patent is listed, no nam PATENT (print of the patent on the patent of the patent on the patent of the patent o	type)	the name of a er a registered es of up to 2	te when an assignment has
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<u> </u>	s requested to apply the issu		ee (if any) or to be	appry any previou	isty paid issue fee to the applicat	ion identified noove.
(Authorized Signature)		(Date)				
other than the applicant;	d Publication Fee (if requ a registered attorney or a ecords of the United States)	gent; or the assignce of	or other party in			
obtain or retain a benefit application. Confidentialit estimated to take 12 minu	ation is required by 37 CF by the public which is to y is governed by 35 U.S.C. tes to complete, including rm to the USPTO. Time we the amount of time you this burden, should be sen Office, U.S. Department SEND FEES OR COMPL of for Patents, Alexandria, V.	file (and by the USPTO 122 and 37 CFR 1.14. I gathering, preparing, an	O to process) and This collection is d submitting the			

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UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/683,149	11/27/2001	Mare Schaepkens	RD28667 5978 EXAMINER		
006147	7590 05/19/2003				
GENERAL ELECTRIC COMPANY		HASSANZADEH, PARVIZ			
	EARCH CENTER KET RM. 4A59		ART UNIT	PAPER NUMBER	
PO BOX 8, BLI	DG. K-1 ROSS		1763		
NISKAYUNA, NY 12309			DATE MAILED: 05/19/2003		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/683,149	11/27/2001	Mare Schaepkens	RD28667 5978 EXAMINER	
006147	7590 05/19/2003			
	LECTRIC COMPANY		HASSANZADE	i, PARVIZ
	EARCH CENTER KET RM. 4A59		ART UNIT	PAPER NUMBER
PO BOX 8, BL	DG. K-1 ROSS		1763	
NISKAYUNA, UNITED STAT			DATE MAILED: 05/19/2003	

Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)			
*	09/683,149	SCHAEPKENS, MARC			
Notice of Allowability	Examiner	Art Unit			
	Bartalla	4700			
	Parviz Hassanzadeh	1763	<u> </u>		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.					
1. This communication is responsive to <u>2/19/03 and 5/19/03</u> .					
2. The allowed claim(s) is/are <u>1,2,5-9,18-23,27-31 and 45-50</u>					
3. The drawings filed on are accepted by the Examine					
 4. ☐ Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the: 		•			
 Certified copies of the priority documents have 	been received.				
Certified copies of the priority documents have	been received in Application No	·			
Copies of the certified copies of the priority do	cuments have been received in this r	national stage applica	ition from the		
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:		•			
5 Acknowledgment is made of a claim for domestic priority un	nder 35 U.S.C. § 119(e) (to a provision	onal application).			
(a) The translation of the foreign language provisional a	pplication has been received.				
6. Acknowledgment is made of a claim for domestic priority un	nder 35 U.S.C. §§ 120 and/or 121.				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of					
7. A SUBSTITUTE OATH OR DECLARATION must be submINFORMAL PATENT APPLICATION (PTO-152) which gives reas			NOTICE OF		
 8. ☐ CORRECTED DRAWINGS must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No (b) ☐ including changes required by the proposed drawing correction filed 5/19/03, which has been approved by the Examiner. (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No 					
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.					
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s)					
 1 ☐ Notice of References Cited (PTO-892) 3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 5 ☐ Information Disclosure Statements (PTO-1449), Paper No 7 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	2☐ Notice of Informa 4⊠ Interview Summa 6☐ Examiner's Amer 8⊠ Examiner's State 9⊠ Other approved µ	ary (PTO-413), Paper ndment/Comment ment of Reasons for	No. <u>9</u> .		

Application/Control Number: 09/683,149

Art Unit: 1763

DETAILED ACTION

Drawings

The proposed drawing correction and/or the proposed substitute sheets of drawings, filed on 5/19/03 have been approved by the Examiner. A proper drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The correction to the drawings will not be held in abeyance.

The drawings filed on 11/27/02, 2/19/03 and 5/19/03 are acceptable subject to correction of the informalities indicated on the attached "Notice of Draftsperson's Patent Drawing Review," PTO-948. In order to avoid abandonment of this application, correction is required in reply to the Office action. The correction will not be held in abeyance.

Allowable Subject Matter

Claims 1, 2, 5-9, 18-23, 27-31, 45-50 are allowed.

The following is an examiner's statement of reasons for allowance:

a deposition apparatus comprising a chamber having a movable substrate and a linear array of a plurality of individual plasma sources, each having a cathode, an anode and a gas inlet, and

a common reactant gas injector comprising <u>a tubular-walled structure having two linear</u>

portions parallel to each other and two end portions connecting the linear portions, wherein the

gas injector is disposed between the anodes of the plasma sources and the substrate and is

circumferentially disposed with respect to the plasma sources.

Art Unit: 1763

Neither of the prior art of the record teaches or suggests a common reactant gas injector comprising two linear and parallel portions and two end portions being circumferentially disposed around a linear array of a plurality of individual expanding thermal plasma (ETP) sources.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Parviz Hassanzadeh whose telephone number is (703)308-2050.

The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Mills can be reached on (703)308-1633. The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9310 for regular communications and (703)872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0661.

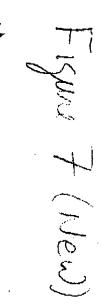
P. Hanon rohl Parviz Hassanzadeh

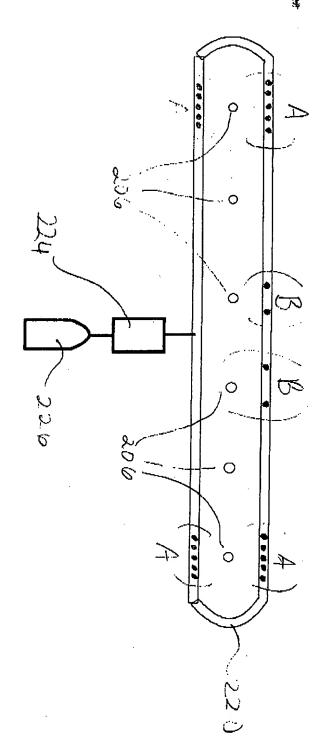
Examiner
Art Unit 1763

May 19, 2003

appeared 5-19-03 p.L.

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Official





29/683/19 Schaepkens